

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A polyphase receiver in which quadrature related low IF signals are soft limited prior to being demodulated, said receiver comprising, coupled to inputs of polyphase filtering means and prior to demodulation, soft limiting amplifying means for adjusting the dynamic range of the quadrature related low IF signals for entry into the polyphase filtering means, wherein the soft limiting means have a characteristic which is substantially linear at signal levels 10dB below a predetermined minimum wanted signal level, moves into compression for higher signal levels and hard limits at substantially 10 dB above the desired receiver sensitivity.

2. (Currently amended) A polyphase receiver comprising:

means for receiving a wanted data signal modulated on a carrier signal and for producing quadrature related low IF signals,

soft limiting means for compressing the dynamic range of the quadrature related low IF signals prior to being demodulated; and

signal demodulation means for recovering the wanted data signal, wherein soft limiting amplifying means are coupled to inputs of the polyphase filtering means prior to demodulation for adjusting the dynamic range of the quadrature related low IF signals for entry into the polyphase filtering means, wherein the soft limiting means have a characteristic which is substantially linear at signal levels 10dB below a predetermined minimum wanted signal level, moves into compression for higher signal levels and hard limits at substantially 10 dB above the desired receiver sensitivity..

3. (Previously presented) The polyphase receiver of claim 2, wherein said receiver further including signal demodulation means for recovering the wanted data signal.

4. (Cancelled).

5. (Cancelled).

6. (Currently amended) A polyphase receiver comprising:

means for receiving a wanted data signal modulated on a carrier signal and for producing quadrature related low IF signals,

soft limiting means for compressing the dynamic range of the quadrature related low IF signals, wherein the soft limiting means have a characteristic which is substantially linear at signal levels 10dB below a predetermined minimum wanted signal level, moves into compression for higher signal levels and hard limits at substantially 10 dB above the desired receiver sensitivity.; and

signal demodulation means for recovering the wanted data signal, characterised by polyphase filtering means coupled between outputs of the soft limiting means and inputs of the signal demodulation means.

7. (original) A polyphase receiver as claimed in claim 2, characterized in that the signal demodulation means comprises a polyphase discriminator and a data filter.

8. (Cancelled).

9. (Original) An integrated receiver comprising those parts of the polyphase receiver as claimed in claim 1 which are integratable.

10. (Original) An integrated transceiver comprising a polyphase receiver as claimed in claim 1 and a transmitter.

11. (Previously presented) The polyphase receiver of claim 1, wherein said amplifying means comprises separate, respective amplification means for said inputs.

12. (Previously presented) The polyphase receiver of claim 2, wherein said amplifying means comprises separate, respective amplification means for said inputs.